



SEQUENCE LISTING

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el <120> INDUCING CELLULAR IMMUNE RESPONSES TO  
HEPATITIS B VIRUS USING PEPTIDE AND NUCLEIC ACID  
COMPOSITIONS

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<141> 1999-07-08

<150> US 08/820,360

<151> 1997-03-12

<150> US 60/013,363

<151> 1996-03-13

<150> US 09/189,702

<151> 1998-11-10

<150> US 08/205,713

<151> 1994-03-04

<150> US 08/159,184

<151> 1993-11-29

<150> US 08/073,205

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<210> 1322  
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<400> 1327

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<210> 1328

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<210> 1329

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<210> 1330

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<210> 1331

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Ala Ser Lys Leu Cys Leu Gly Trp  
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<210> 1370

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Arg Thr Leu Gly Leu Ser Ala Met  
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<210> 1378

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Ser Ser Gly Thr Val Asn Pro Val  
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Asn Leu Ser Trp Leu Ser Leu Asp Val  
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Pro Pro Ala Tyr Arg Pro Pro Asn Ala  
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Pro Pro His Gly Gly Leu Leu Gly Trp  
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<210> 1778

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Val Leu Gln Ala Gly Phe Phe Leu Leu  
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<210> 1801

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Trp Ile Leu Arg Gly Thr Ser Phe Val  
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<210> 1802

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<400> 1802  
Trp Leu Leu Gly Cys Ala Ala Asn Trp  
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<210> 1808

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Tyr Met Asp Asp Val Val Leu Gly Ala  
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Phe Val Gly Leu Ser Pro Thr Val Trp Leu  
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<400> 1833

Phe Val Leu Gly Gly Cys Arg His Lys Leu  
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<210> 1834

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Gly Leu Pro Val Cys Ala Phe Ser Ser Ala  
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Gly Leu Ser Pro Phe Leu Leu Ala Gln Phe  
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His Pro Ile Ile Leu Gly Phe Arg Lys Ile

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<400> 1846  
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<210> 1847  
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<210> 1848  
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<400> 1848  
Ile Leu Arg Gly Thr Ser Phe Val Tyr Val  
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<210> 1849  
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Ile Leu Ser Thr Leu Pro Glu Thr Thr Val  
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<210> 1851  
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Lys Leu Pro Val Asn Arg Pro Ile Asp Trp  
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Lys Val Cys Gln Arg Ile Val Gly Leu Leu  
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Lys Val Leu His Lys Arg Thr Leu Gly Leu  
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<210> 1859

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<400> 1859

Leu Ile Phe Leu Leu Val Leu Leu Asp Tyr  
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<210> 1860

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<212> PRT  
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<210> 1861  
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<400> 1863  
Leu Leu Leu Cys Leu Ile Phe Leu Leu Val  
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<400> 1864  
Leu Leu Pro Ile Phe Phe Cys Leu Trp Val  
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Leu Leu Ser Phe Leu Pro Ser Asp Phe Phe  
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<210> 1867  
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Asn Val Ser Ile Pro Trp Thr His Lys Val  
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<210> 1880

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Pro Ile Asp Trp Lys Val Cys Gln Arg Ile  
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<210> 1881

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Pro Ile Phe Phe Cys Leu Trp Val Tyr Ile  
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Pro Leu Asp Lys Gly Ile Lys Pro Tyr Tyr  
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Pro Leu His Pro Ala Ala Met Pro His Leu  
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Pro Leu Leu Pro Ile Phe Phe Cys Leu Trp  
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<210> 1888  
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<400> 1888  
Pro Leu Leu Val Leu Gln Ala Gly Phe Phe  
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Pro Leu Pro Ile His Thr Ala Glu Leu Leu  
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Pro Leu Ser Tyr Gln His Phe Arg Lys Leu  
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Pro Leu Thr Val Asn Glu Lys Arg Arg Leu  
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Pro Met Gly Val Gly Leu Ser Pro Phe Leu  
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Pro Pro Asn Ala Pro Ile Leu Ser Thr Leu

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<400> 1894  
Pro Val Asn Arg Pro Ile Asp Trp Lys Val  
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<400> 1895  
Gln Leu Leu Trp Phe His Ile Ser Cys Leu  
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<400> 1896  
Arg Ile Val Gly Leu Leu Gly Phe Ala Ala  
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<400> 1897  
Arg Leu Lys Leu Ile Met Pro Ala Arg Phe  
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<210> 1898  
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<400> 1898  
Arg Gln Ala Ile Leu Cys Trp Gly Glu Leu  
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<210> 1899  
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<400> 1899  
Arg Val His Phe Ala Ser Pro Leu His Val  
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<210> 1900  
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Ser Leu Leu Val Pro Phe Val Gln Trp Phe  
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<210> 1901  
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<400> 1901  
Ser Leu Arg Gly Leu Pro Val Cys Ala Phe  
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Ser Leu Thr Asn Leu Leu Ser Ser Asn Leu  
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<210> 1903  
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<400> 1903

Ser Pro His His Thr Ala Leu Arg Gln Ala  
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<210> 1904

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Ser Pro Thr Val Trp Leu Ser Val Ile Trp  
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<210> 1905

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<400> 1905

Ser Val Arg Phe Ser Trp Leu Ser Leu Leu  
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<210> 1906

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<400> 1906

Thr Ile Pro Gln Ser Leu Asp Ser Trp Trp  
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<210> 1907

<211> 10

<212> PRT

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<223> Artificially Synthesized Peptide

<400> 1907

Thr Pro Ala Arg Val Thr Gly Gly Val Phe  
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<210> 1908

<211> 10

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<400> 1908  
Thr Pro Pro Ala Tyr Arg Pro Pro Asn Ala  
1 5 10

<210> 1909  
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<400> 1909  
Thr Pro Pro His Gly Gly Leu Leu Gly Trp  
1 5 10

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<210> 3012  
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<210> 3021  
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<210> 3022  
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Arg Arg Ser Phe Gly Val Glu Pro Ser Gly Ser Gly His Ile Asp  
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Phe Ile Ile Phe Leu Phe Ile Leu Leu Leu Cys Leu Ile Phe Leu  
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<210> 3030  
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Thr Ser Gly Phe Leu Gly Pro Leu Leu Val Leu Gln Ala Gly Phe  
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Ala	Gly	Phe	Phe	Leu	Leu	Thr	Arg	Ile	Leu	Thr	Ile	Pro	Gln	Ser
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Cys	Leu	Ile	Phe	Leu	Leu	Val	Leu	Leu	Asp	Tyr	Gln	Gly	Met	Leu
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Gly	Leu	Tyr	Phe	Pro	Ala	Gly	Gly	Ser	Ser	Ser	Gly	Thr	Val	Asn
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Leu	Gly	Phe	Phe	Pro	Asp	His	Gln	Leu	Asp	Pro	Ala	Phe	Gly	Ala
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Arg	Arg	Ala	Phe	Pro	His	Cys	Leu	Ala	Phe	Ser	Tyr	Met	Asp	Asp
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Ile Leu Gly Phe Arg Lys Ile Pro Met Gly Val Gly Leu Ser Pro  
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<210> 3037  
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<400> 3037  
Lys Gln Cys Phe Arg Lys Leu Pro Val Asn Arg Pro Ile Asp Trp  
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<210> 3038  
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Val Cys Ala Phe Ser Ser Ala Gly Pro Cys Ala Leu Arg Phe Thr  
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<210> 3039  
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Lys Gln Ala Phe Thr Phe Ser Pro Thr Tyr Lys Ala Phe Leu Cys  
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<210> 3042  
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1 5 10 15

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<210> 3045  
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1 5 10 15

<210> 3046  
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Gly Thr Ser Phe Val Tyr Val Pro Ser Ala Leu Asn Pro Ala Asp  
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<400> 3047  
Asn Arg Pro Ile Asp Trp Lys Val Cys Gln Arg Ile Val Gly Leu  
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Ala Lys Leu Ile Gly Thr Asp Asn Ser Val Val Leu Ser Arg Lys  
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<210> 3051

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Pro Leu Pro Ile His Thr Ala Glu Leu Leu Ala Ala Cys Phe Ala  
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<210> 3052

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<400> 3052

Arg Arg Phe Ile Ile Phe Leu Phe Ile Leu Leu Leu Cys Leu Ile  
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<210> 3053

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<400> 3053

Phe Leu Phe Ile Leu Leu Leu Cys Leu Ile Phe Leu Leu Val Leu  
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<210> 3054

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<400> 3054

Ala Asn Trp Ile Leu Arg Gly Thr Ser Phe Val Tyr Val Pro Ser  
1 5 10 15

<210> 3055

<211> 15

<212> PRT

<213> Artificial Sequence

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<400> 3055

Asn	Ala	Pro	Ile	Leu	Ser	Thr	Leu	Pro	Glu	Thr	Thr	Val	Val	Arg
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<210> 3056

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<212> PRT

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<400> 3056

Cys	Thr	Cys	Ile	Pro	Ile	Pro	Ser	Ser	Trp	Ala	Phe	Ala	Arg	Phe
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<210> 3057

<211> 15

<212> PRT

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<400> 3057

Gly	Val	Trp	Ile	Arg	Thr	Pro	Pro	Ala	Tyr	Arg	Pro	Pro	Asn	Ala
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<210> 3058

<211> 15

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Ala	Glu	Leu	Leu	Ala	Ala	Cys	Phe	Ala	Arg	Ser	Arg	Ser	Gly	Ala
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<210> 3059

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Pro	His	Cys	Leu	Ala	Phe	Ser	Tyr	Met	Asp	Asp	Val	Val	Leu	Gly
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<400> 3060  
Pro Phe Leu Leu Ala Gln Phe Thr Ser Ala Ile Cys Ser Val Val  
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<400> 3061  
Ala Ser Lys Leu Cys Leu Gly Trp Leu Trp Gly Met Asp Ile Asp  
1 5 10 15

<210> 3062  
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<400> 3062  
Ile Leu Leu Leu Cys Leu Ile Phe Leu Leu Val Leu Leu Asp Tyr  
1 5 10 15

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<400> 3063  
Arg Asp Val Leu Cys Leu Arg Pro Val Gly Ala Glu Ser Arg Gly  
1 5 10 15

<210> 3064  
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Asp Leu Asn Leu Gly Asn Leu Asn Val Ser Ile Pro Trp Thr His  
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Ser Gly Phe Leu Gly Pro Leu Leu Val Leu Gln Ala Gly Phe Phe  
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His Leu Pro Leu His Pro Ala Ala Met Pro His Leu Leu Val Gly  
1 5 10 15

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Leu Leu Cys Leu Ile Phe Leu Leu Val Leu Leu Asp Tyr Gln Gly  
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Lys Arg Arg Leu Lys Leu Ile Met Pro Ala Arg Phe Tyr Pro Asn  
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Ser	Pro	Phe	Leu	Leu	Ala	Gln	Phe	Thr	Ser	Ala	Ile	Cys	Ser	Val
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Phe	Pro	Trp	Leu	Leu	Gly	Cys	Ala	Ala	Asn	Trp	Ile	Leu	Arg	Gly
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Ile	Val	Gly	Leu	Leu	Gly	Phe	Ala	Ala	Pro	Phe	Thr	Gln	Cys	Gly
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1 5 10 15

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1 5 10 15

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Ser Val Glu Leu Leu Ser Phe Leu Pro Ser Asp Phe Phe Pro Ser  
1 5 10 15

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<400> 3087  
Thr Asn Phe Leu Leu Ser Leu Gly Ile His Leu Asn Pro Asn Lys  
1 5 10 15

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1 5 10 15



<210> 3089  
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<400> 3089  
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1 5 10 15

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1 5 10 15

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1 5 10 15

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Ala Glu Asp Leu Asn Leu Gly Asn Leu Asn Val Ser Ile Pro Trp  
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Asp Glu Gly Leu Asn Arg Arg Val Ala Glu Asp Leu Asn Leu Gly  
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<400> 3097

Leu Gly Asn Leu Asn Val Ser Ile Pro Trp Thr His Lys Val Gly  
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<212> PRT

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Leu Ser Thr Leu Pro Glu Thr Thr Val Val Arg Arg Arg Gly Arg  
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<210> 3099

<211> 15

<212> PRT

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<400> 3099

Leu Pro Leu Leu Pro Ile Phe Phe Cys Leu Trp Val Tyr Ile Glx  
1 5 10 15

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<211> 15

<212> PRT

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<400> 3100

Val Ala Pro Leu Pro Ile His Thr Ala Glu Leu Leu Ala Ala Cys  
1 5 10 15

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<211> 15

<212> PRT

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<400> 3101

Phe Arg Lys Leu Pro Val Asn Arg Pro Ile Asp Trp Lys Val Cys  
1 5 10 15

<210> 3102

<211> 15

<212> PRT

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<400> 3102

Cys Trp Trp Leu Gln Phe Arg Asn Ser Lys Pro Cys Ser Asp Tyr  
1 5 10 15

<210> 3103

<211> 15

<212> PRT

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<400> 3103

His	Leu	Ser	Leu	Arg	Gly	Leu	Pro	Val	Cys	Ala	Phe	Ser	Ser	Ala
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<400> 3104

Val	Leu	Cys	Leu	Arg	Pro	Val	Gly	Ala	Glu	Ser	Arg	Gly	Arg	Pro
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<210> 3105

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<400> 3105

His	Thr	Ala	Leu	Arg	Gln	Ala	Ile	Leu	Cys	Trp	Gly	Glu	Leu	Met
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<210> 3106

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<400> 3106

Trp	Met	Cys	Leu	Arg	Arg	Phe	Ile	Ile	Phe	Leu	Phe	Ile	Leu	Leu
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<210> 3107

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<400> 3107

Val	Glu	Leu	Leu	Ser	Phe	Leu	Pro	Ser	Asp	Phe	Phe	Pro	Ser	Ile
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Leu Ser Trp Leu Ser Leu Asp Val Ser Ala Ala Phe Tyr His Ile  
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<400> 3110  
Gly Ala His Leu Ser Leu Arg Gly Leu Pro Val Cys Ala Phe Ser  
1 5 10 15

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<210> 3112  
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<400> 3116  
Thr Arg Ile Leu Thr Ile Pro Gln Ser Leu Asp Ser Trp Trp Thr  
1 5 10 15

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1 5 10 15

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<400> 3118  
Phe Phe Leu Leu Thr Arg Ile Leu Thr Ile Pro Gln Ser Leu Asp  
1 5 10 15

<210> 3119  
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Arg Gln Leu Leu Trp Phe His Ile Ser Cys Leu Thr Phe Gly Arg  
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Leu Gly Trp Leu Trp Gly Met Asp Ile Asp Pro Tyr Lys Glu Phe  
1 5 10 15

<210> 3124

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<212> PRT

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<400> 3124

Leu His Thr Leu Trp Lys Ala Gly Ile Leu Tyr Lys Arg Glu Thr  
1 5 10 15

<210> 3125

<211> 15

<212> PRT

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<400> 3125

Ala Ser Ala Leu Tyr Arg Glu Ala Leu Glu Ser Pro Glu His Cys  
1 5 10 15

<210> 3126

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<400> 3126

Lys Leu His Leu Tyr Ser His Pro Ile Ile Leu Gly Phe Arg Lys  
1 5 10 15

<210> 3127

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<400> 3127

Phe	Ser	Tyr	Met	Asp	Asp	Val	Val	Leu	Gly	Ala	Lys	Ser	Val	Gln
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<400> 3128

Lys	Ile	Pro	Met	Gly	Val	Gly	Leu	Ser	Pro	Phe	Leu	Leu	Ala	Gln
1				5					10					15

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<400> 3129

Pro	Ala	Ala	Met	Pro	His	Leu	Leu	Val	Gly	Ser	Ser	Gly	Leu	Ser
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<210> 3130

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<400> 3130

Pro	Gln	Ala	Met	Gln	Trp	Asn	Ser	Thr	Thr	Phe	His	Gln	Thr	Leu
1				5					10					15

<210> 3131

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<400> 3131

Leu	Ser	Ala	Met	Ser	Thr	Thr	Asp	Leu	Glu	Ala	Tyr	Phe	Lys	Asp
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<400> 3132  
Ile Trp Met Met Trp Tyr Trp Gly Pro Ser Leu Tyr Asn Ile Leu  
1 5 10 15

<210> 3133  
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<400> 3133  
Gly Leu Pro Val Cys Ala Phe Ser Ser Ala Gly Pro Cys Ala Leu  
1 5 10 15

<210> 3134  
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<400> 3134  
Asp Trp Lys Val Cys Gln Arg Ile Val Gly Leu Leu Gly Phe Ala  
1 5 10 15

<210> 3135  
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<400> 3135  
Leu Cys Gln Val Phe Ala Asp Ala Thr Pro Thr Gly Trp Gly Leu  
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<210> 3136  
<211> 15  
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<220>  
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<400> 3136  
Gln Trp Phe Val Gly Leu Ser Pro Thr Val Trp Leu Ser Val Ile  
1 5 10 15

<210> 3137  
<211> 15  
<212> PRT  
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<400> 3137  
Gln Gln Tyr Val Gly Pro Leu Thr Val Asn Glu Lys Arg Arg Leu  
1 5 10 15

<210> 3138  
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<400> 3138  
Pro Asp Arg Val His Phe Ala Ser Pro Leu His Val Ala Trp Arg  
1 5 10 15

<210> 3139  
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<400> 3139  
Ala Arg Asp Val Leu Cys Leu Arg Pro Val Gly Ala Glu Ser Arg  
1 5 10 15

<210> 3140  
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<212> PRT  
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<220>  
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<400> 3140  
Asp Asp Val Val Leu Gly Ala Lys Ser Val Gln His Leu Glu Ser  
1 5 10 15

<210> 3141  
<211> 15  
<212> PRT  
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<400> 3141  
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<210> 3142  
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<400> 3142  
Lys Phe Ala Val Pro Asn Leu Gln Ser Leu Thr Asn Leu Leu Ser  
1 5 10 15

<210> 3143  
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<400> 3143  
Cys Pro Thr Val Gln Ala Ser Lys Leu Cys Leu Gly Trp Leu Trp  
1 5 10 15

<210> 3144  
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<400> 3144  
Trp Ala Ser Val Arg Phe Ser Trp Leu Ser Leu Leu Val Pro Phe  
1 5 10 15

<210> 3145  
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<400> 3145  
Cys Ser Val Val Arg Arg Ala Phe Pro His Cys Leu Ala Phe Ser  
1 5 10 15

<210> 3146  
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<400> 3146

Asn Leu Asn Val Ser Ile Pro Trp Thr His Lys Val Gly Asn Phe  
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<400> 3147

Ser Phe Gly Val Trp Ile Arg Thr Pro Pro Ala Tyr Arg Pro Pro  
1 5 10 15

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<400> 3148

Thr Ser Phe Val Tyr Val Pro Ser Ala Leu Asn Pro Ala Asp Asp  
1 5 10 15

<210> 3149

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<400> 3149

Gln Leu Leu Trp Phe His Ile Ser Cys Leu Thr Phe Gly Arg Glu  
1 5 10 15

<210> 3150

<211> 15

<212> PRT

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<400> 3150

Phe Val Gln Trp Phe Val Gly Leu Ser Pro Thr Val Trp Leu Ser  
1 5 10 15

<210> 3151

<211> 15

<212> PRT

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<400> 3151

Ala	Ala	Asn	Trp	Ile	Leu	Arg	Gly	Thr	Ser	Phe	Val	Tyr	Val	Pro
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<212> PRT

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<400> 3152

Phe	Gly	Val	Trp	Ile	Arg	Thr	Pro	Pro	Ala	Tyr	Arg	Pro	Pro	Asn
1				5					10					15

<210> 3153

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<212> PRT

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<400> 3153

His	Thr	Leu	Trp	Lys	Ala	Gly	Ile	Leu	Tyr	Lys	Arg	Glu	Thr	Thr
1				5					10					15

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<400> 3154

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<210> 3351  
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Gly Leu Ser Arg Tyr Val Ala Arg Leu  
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His Thr Leu Trp Lys Ala Gly Ile Leu Tyr Lys  
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Ser Thr Leu Pro Glu Thr Thr Val Val Arg Arg  
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Asn Val Ser Ile Pro Trp Thr His Lys  
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Leu Val Val Asp Phe Ser Gln Phe Ser Arg  
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Gln Ala Phe Thr Phe Ser Pro Thr Tyr Lys  
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Ser Trp Trp Thr Ser Leu Asn Phe Leu  
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Leu Tyr Ser His Pro Ile Ile Leu Gly Phe  
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Leu Gln Ser Leu Thr Asn Leu Leu Ser Ser Asn Leu Ser Trp Leu  
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Lys Gln Ala Phe Thr Phe Ser Pro Thr Tyr Lys Ala Phe Leu Cys  
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<400> 3860

Ala Gly Phe Phe Leu Leu Thr Arg Ile Leu Thr Ile Pro Gln Ser  
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<400> 3861

Gly Thr Ser Phe Val Tyr Val Pro Ser Ala Leu Asn Pro Ala Asp  
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<210> 3862

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Asn Ala Pro Ile  
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<210> 3863  
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Arg His Tyr Leu His Thr Leu Trp Lys Ala Gly Ile Leu Tyr Lys  
1 5 10 15

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Leu Val Pro Phe Val Gln Trp Phe Val Gly Leu Ser Pro Thr Val  
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Leu His Leu Tyr Ser His Pro Ile Ile Leu Gly Phe Arg Lys Ile  
1 5 10 15

<210> 3866  
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 Met Thr Leu Ala  
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<400> 3871

Glu Ser Arg Leu Val Val Asp Phe Ser Gln Phe Ser Arg Gly Asn  
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Val Gly Pro Leu Thr Val Asn Glu Lys Arg Arg Leu Lys Leu Ile  
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Gln Tyr Ile Lys Ala Asn Ser Lys Phe Ile Gly Ile Thr Glu  
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<400> 3875

Asp Ile Glu Lys Lys Ile Ala Lys Met Glu Lys Ala Ser Ser Val Phe  
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Asn Val Val Asn Ser  
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<400> 3876  
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